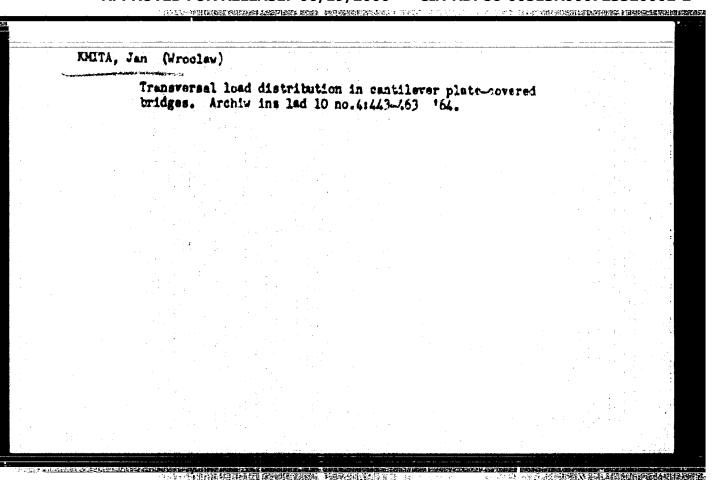
"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2

WHITA, Jan, doo. dr ins. (Wroolaw)

Videning of an existing road bridge. Ins i bud 21 no.8:280284 Ag '64.



BYSTREAROWSKA, T.; EMITA, S.

Modern view on the physiology of hearing. Polski tygod.lek. 5 no.47-48: 1662-1677 27 Nov 50. (GIMI: 2016)

1. Of the Otolaryngological Clinic of Lods Medical Academy (Birector Prof. H.Levenfiss).

SYSTRZANOVSKA, T.; EMITA, S. Modern concepts of physiology of taste and smell. Polski tygod. lek,6 no. 37:1192-1198 10 Sept. 1951. (CLML 21:3) 1. Of the Otolaryngological Clinic (Director--Prof. Henryk Lewenfies, M. D.) of Lods Medical Academy.

※ 1 ・ 1 はある)を2004年から64年が開発的で、本地の2004年を2004年を2004年を2014年

Ditta, S.

Effect of gasoline vapors on the upper respiratory tract and on the olfactory apparatus. Med. pracy 4 no.2:119-130 1953. (CLML 24:5)

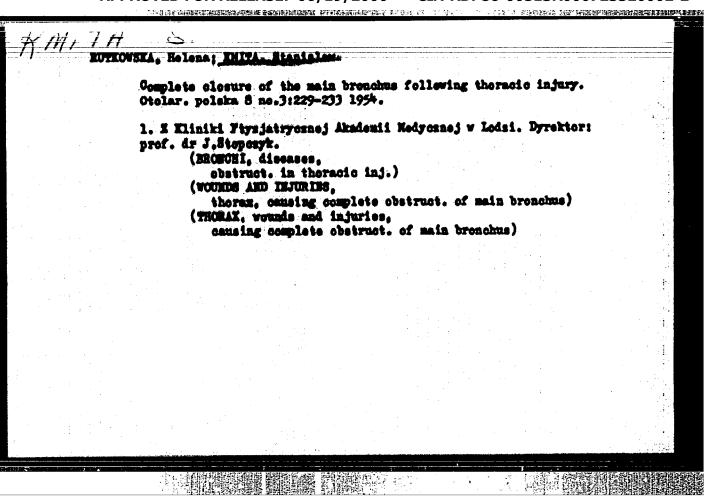
1. Of the Otolaryngological Clinic (Head-Prof. H. Levenfiss, M.D.), the Institute of Pathological Anatomy (Head-Prof. A. Prusscsynski, M.D.) and the Polyclinic of Occupational Diseases (Director-Prof. E. Paluch, M. D.), Lods Medical Academy.

ENITA, S.

Mffect of gasoline on the upper respiratory tract. Med. pracy 4 no.3: 171-180 1953. (CIML 24:5)

(1) 1995 中國 [[1] 1995 [[1

1. Of the Otolaryngological Clinic (Head--Prof. H. Levenfiss, M. D.) and of the Institute of Pathological Anatomy (Head--Prof. A. Prusscsynski, M. D.) and of the Polyclinic of Occupational Diseases (Director--Prof. E. Paluch, M. D.), Lods Medical Academy.



20

SOMOLOWSKI, Stefan; FRETAG, Tadouss; DUTA, Stanislaw

Experiments with bacteriostatic activity of self-polymerising acrylic implants. Hour. &c.polska 5 no.3:253-258 Ny-Je '55.

1. Z Vojskovego Sspitala Klimicznego v Lodzi, Lodz, Viersbova 33/36

(ACHYLIC MESING self-polymerizing implants, bacteriostatic eff.)

DillA, Stanislaw

Surgical treatment of ozena. Otolar. polska 9 no.2:149-152 '55.

1. Ze Sspitala Klinicsnego V.P. w Lodsi Lods, Al. Kosciusski 29. (RHINITIS, ATROPHIO, surgery acrylic implants)

Clinical observations on action of isonicotinic acid hydraside in laryngeal tuberculosis. Otolar. polska 9 no.3:227-832 1955.

1. S Panstwowego Sanatorium Prseciwgusliczego w Tuszynku.
Dyrektor: dr. S.Piulo.
(TURENCULOSIS, LANTECHAL, therapy,
isomiasid)
(NICOTINIO ACID ISOMERS, therapeutic use,
isomiasid in laryngeal tubero.)

PRETTAG, Tadeuss; DilTA, Stanislar; SOEDLOVSKI, Stefan

Application of the plactic substance dentacril as tissue implants. Polski presgl.chir. 27 no.4:323-326 Apr '55.

implants in dogs, histol.eff.)

1. Ze Sapitala klinicanego V.P. w Lodai; Sapital Klinicany W.P. w Lodai.
(ACRYLIC RESIES

Studies on heat production in self-polymerising masses used for implants. Heur. &c. polska 6 no.1:41-45 Jan-Feb 56. 1. Z Wojskowago Sspitala Klinicsnago w Lodsi, Lods, Viersbowa 33/36. (ACKILIC RESIES, self-polymerising, heat prod. in prep. for implants. (Fol))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2"

146.162.46.86.16.30是-各位的特别和自由表现。在这种名的形式 4.1%。

HEDZIMINSKI, Aleksander: KMITA, Stanislav

APPROVED FOR RELEASE: 06/19/2000

Intraoranial complications during otivis media in infants. Pediat. polsks. 32 no.3:237-246 Mar 57.

THE STREET OF THE PERSON NAMED AND THE PERSON NAMED IN THE PERSON

CIA-RDP86-00513R000723320002-2"

1. Z I Kliniki Chorob Daieci A. M. w Lodzi Kierownik: doc. dr med. E. Wilkossewski i s Kliniki Otolaryngologicsnej A. M. w Lodzi Kierownik: prof. dr med. A. Radsiminski. Adres: Lods, ul. Armii Czerwonej 15. (OTITIS HEDIA, in inf. & child caused abscess of brain (Pol)) (BRAIM, abscess

caused by otitis media in inf. (Poli)

MITA, Stanislaw; MARTINIOZ-REMEINSTA, Henna

Simusitis in infants & young children, Otelar, polem 12 no.2:151-161
1958.

1. S I Kliniki Chorob Deisoi A. M. w Lodsi Kierowniki doc, dr H. Wilkossewski i se Sspitala dla Daisoi Im. Prof. Dr St. Popowskiego Dyraktor:
dr med, S. Pasenicka-Oundlachova.
(SINUSITEM, in inf. & child
maxillary (Pol))

EMILIA. Stanialar: JAGNIH-KOPOZYEKA, Evelina; KOTHOWSKA-RAPACKA, Viceleva; KOSZAEKA, Janina

Surgery in a case of teratoma of the larynx in a 41-day-old infant. Otolar.polein 13 no.3/41624-629 '59.

1. E I Kliniki Ohorob Dsieci A.N. w Lodsi. Kierownik: doc.dr med. K. Sroomyneki. Konsultant Laryngolog: doc.dr med. S. Kmita. (TERATOTO TUNOSE in inf.& child)

(LARYET neopl.)

INITA, Stanislavi OSTROWSKA-STACHOVA, Helena

प्रदेशका में अवस्थितिकात्रका कार्या विकासिकासिका स्थापका कर्त्रका करात्रका कर्त्रका कर्त्रका कर्त्रका कर्त्रका कर्त्रका करात्रका कर करात्रका करात्रका करात्रका कर करात्रका करात्रक

A case of masopharyngeal tumor (lymphospithelioma) in a 6-year-old child. Pediat. polska 34 no.5:722-724 May 59.

1. I Kliniki Chorob Dzieci A.M. w Lodzi p.o. Kierownik: doc. dr med.
K. Stoczynski, Adres: Lodz, ul. Armii Czerwonej 15.
(CARCINOMA, MPIDEMOID, in inf. & child,
nasopharynx (Pol))
(MAROPHAHYMI, neoplasme,
epidermoid carcinoma in child (Pol))

Reticulesarcom of the mediastinum. Otolar.poleka 14 no 2:259-262 160. 1. Z I Kliniki Chorob Deieciecycs A.N. v Lodzi, Kierownik Katedry: prof. dr med. Fr. Redlich; Kierownik I Kliniki; doc.dr med. E. Srocsynski; Kierownik Odds. Laryngologicsnego: doc dr med. St Knita. (MEDIASTINM neopl) (SARCOMA ENVICULUM CRIL in inf 4 child)

BRIEZINSKA, Hanna; CZAPLICKI, Brunon; EMITA, Stanislav; KRAJ-FRANCOVA, Irona; MALINOWSKI, Wladyslaw

Surgical changes in the masteid in the light of presperative otolaryngological examinations in infants, Otolar polska 15 mo.1: 67-71 '61,

1. Z II Kliniki Chorob Dsieci AM w Lodsi Kierownik: prof. dr F. Redlich Z I Kliniki Choreb Dsieci AM w Lodsi Kierownik: doc. dr K. Srocsynski Z Oddsialu Otolaryngologii Dsieciecej przy katedrze Ehorob Dsieci AM w Lodsi Kierownik: prof. dr F. Redlich Kierownik Oddsialu: doc. dr S. Knita.

(MASTOIDITIS in inf & child) (IMPART NEWBORN dis)

MHITA, Stanislav; JANKOWSKI, Jan

THE STAND AND DESCRIPTIONS AND DESCRIPTION OF THE PROPERTY OF

Endotracheal anesthesia in tonsillar surgery in children. Otolaryng. pol. 16 no.3:531-536 162.

1. I Oddsialu Otolaryngologii Dsieciecej prsy Katedrse Pediatrii AM w Lodsi Kierownik Katedry: prof. dr med. F. Redlich Kierownik Oddsialu: doc. dr med. S. Kmita. (AMESTHESIA INTRACEACHEAL) (TONSILLECTOMY)

DHTA, Stanislaw; FILIPIAN-MIASTOWSKA, Irmins; WOZNIAK, Zdzielaw.

Radiodiagnosis of inflammatory sural changes in children.
Otolaryng. pol. 17 no.42487-490 '63.

1. S Oddsialu Otolaryngologii Dsieciscej AM przy II Klinice
Chorob Dsieci w Lodzi. Kierownik: doc.dr.med. S.Kmita.

MITA, Stanislaw

The problem of pediatric otiatrics. Otolaryng.pol. 17 no.41 374-376 163.

A STATE OF THE SECOND STAT

l. Z Oldzielu Otolaryngologii Dzieciecej przy II Klinice Chorob Dzieci Akademii Medycznej w Lodzi. Kierownik Oddzialus doc.dr.med.S.Knita.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2"

KMITA, Stanislav, doc. dr.

Studies on the arterial vascularization of the tympanic cavity. Otolaryng. Pol. 19 no.1:17-22 165.

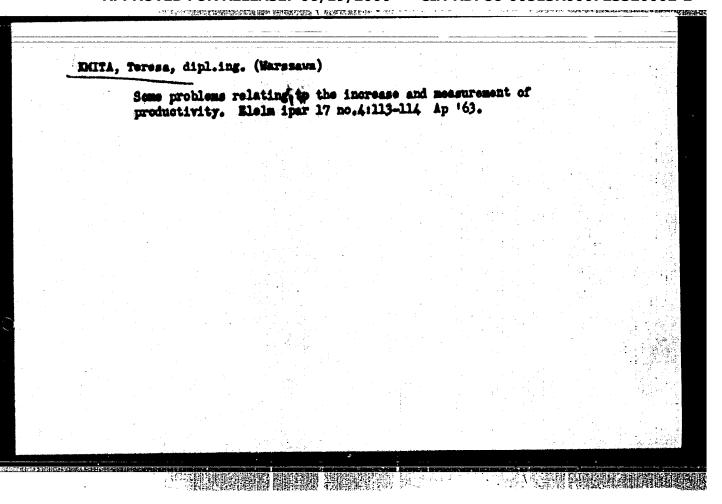
1. Z Oddzialu Otolaryngologii Dzieciecej Akademii Medycznej w Lodzi przy II Klinice Chorob Dzieci (Kierownik Klinikiz prof. dr. Pr. Redlich; Kierownik Oddzialuz doc. dr. St. Kmita) i z Zakladu Anatomii Prawidlowej Akademii Hedycznej w Lodzi (Kierownik Zakladuz prof. dr. T. Wasilewski).

A COLUMN TO THE PROPERTY OF TH

KHITA, Stanielav, doc. dr. med.; JACHIN-KOPCZYMSKA, Beelina

A case of congenital lack of incus and stapes immobilisation (Siebenmenn's type). Otolaryng. Pol. 19 no.2:253-255 '65.

1. I Oddsialu O darjngelegii Dzieciecej przy II Katedrze Choreb Dzieci Akademii dedycznej w Lodzi (Kierownik Katedry: prof. dr. med. F. Redlich [decessed]; Kierownik Oddzialu: doc. dr. med. S. Kmita).



그 그 그 그 그 그 그 그는 그는 그는 그는 그는 그는 그는 이 문에는 가장을 가져가면, 이 그를 보고 하는 것이 되었다.	
1 29987-66 EWT(1)/EWT(m)/EMP(t)/ETI IJP(0) JD ACC NR: AP6012491 BOURCE CODE: UR/0181/66	· · · · · · · · · · · · · · · · · · ·
AUTHOR: Pavlichenko, V. I.; Ryzhikov, I. V.; Maita, T. G.; Kareg P. M.; Leyderman, A. Nu.	eorgiy-Alkalayev,
ORG: none	å.
SCURCE: Finish tverdogo tels, v. 8,7%. 4, 1966, 1239-1247 TOPIC TAGE: silicon carbide, pn junction, diode junction, volt	
ABSTRACT: The authors investigated the dependence of the intensions conce on the current and voltage in a-Sic (types \$H, 6H, vestigated junctions were prepared by separate and simultaneous allowed by	diffusion of alumi-
nitrogen and boron. The results welectrons through the n-n con through the p-n junctions and the electrons through the n-n con	tact. The theory ty in a p-n-n acteristics of the
to be but after developed. The lux-ampere and volt-ampere coar	tele ou the grade.
of the current dependence of the recombination and volt-ampère char diode is briefly developed. The lux-ampère and volt-ampère char various diodes were measured as functions of the current and vol	
diode is briefly developed. The lux-ampere and collections of the current and volvarious diodes were measured as functions of the current and vol	

SHEROLD PRESENTATION OF STREET, STREET

32-12-45/71

AUTHORS:

Kmito, A.A., Ledekhovich, A.A.

Improved Condensation Hydrometer (Usovershenstvovanny) kendemaatalonnyy gigrometr).

TITLE

PERIODICALI

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 12, pp. 1505-1506 (USSR)

ABSTRACT:

An apparatus suggested in 1954 and built in 1955 was further improved. In its latest finish, which is described here, it consists of two half-round semiconductor elements, which are pasted together, so that they form a cylindrical body. The semiconductor layers of each element have a thickness of 10 mm and are connected with one another by intermediate copper layers of 2 mm thickness. The lower semiconductor plates are fastened immediately to the radiator below them, the domed form of which warrants a good contact with the air, so that the lower layers of the element have the same temperature as their surroundings. The upper (ocoling) semiconductor layer is provided with a metal mirror to which a thermometer is fastened. In about 40 minutes after the ourrent has been turned on, a temperature difference between the upper (cooling) and the lower (marm) layer of about 50° ecours, which results in a difference of 30-33° on the mirror and in the surrounding air. This difference is reduced as soon

Card 1/2

Improved Condensation Hydremeter

32-12-45/71

ACTO !

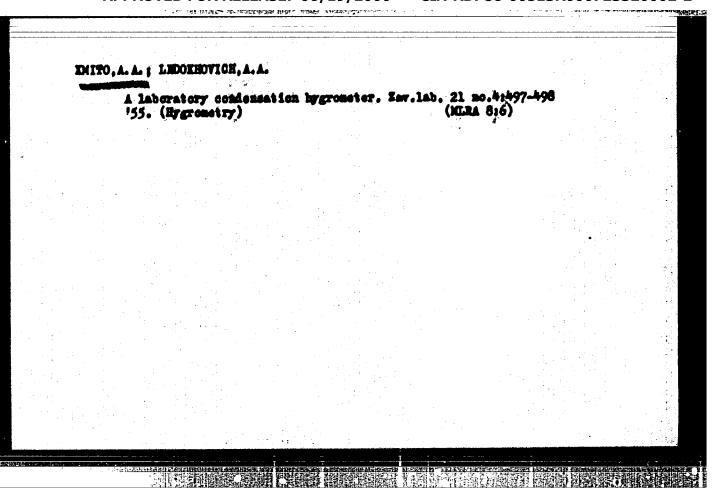
as the surrounding air is set in motion and blows upon the mirror. For the purpose of measuring moisture in a rational manner a motion of air of 2 m/sec is considered to be the most suited. Feeding ourrent into the apparatus is carried out according to the following scheme: the current is conducted to a synchronous vibration transformer and is then led through an exciter contact to the reduction transformer. From here the current is conducted by may of a resistance (rhecatat) to the semiconductor element (cooler). Behind the semiconductor element a switch with a relay is switched into the ourrent. For the automatic control of the hydrometer mirror a photoelement of the "CU.B-51" type is used here, which works according to the principle of the "dark field", i.e. that, if the mirror is clear, the light, which is reflected from the lamp, falls beside the photoelement. At the moment in which condensate is formed on the mirror, light dispersion sets in, and the light falling upon the photoelement causes a change of the equilibrium of the magnetic field of the photoelement, which is indicated by the microarmeter provided for this purpose. There are 3 figures and 3 Slavio references.

AVAILABLE:

Library of Congress

Card 2/2

1. Hydrometers-Improvement



12-5-18/52 Kmito, Yes. I., Kmito, A.A. The Determination of the Electric Conductivity of Oxide Coatings AUTHURS: on Aluminum in a Moist Atmosphere (Opredeleniye elektroprovodnosti okisnykh plenok na alyuminii vo viazimoy TITLE: atmosfere) PERIODICALS: Zavodskaya Laboratoriya, 1956, Vol. 2h, Nr 3, pp. 303-306 (USER) Three methods are suggested for the above mentioned determination; the measuring range being large, the first method is employed for rather rough estimates, whereas the second gives accurate results ABSTRACT: in the case of lower, and the third in the case of higher values of moisture. Inve tigation samples of duraluminum were cylindrical in shape, their surface was previously treated anodically in order to obtain a layer of oxide. According to the first method a nickel wire serves as an anode and is connected to a series of piles (batteries). The: resistance which is produced in this way and is influenced by the oxide layer and by the meisture, is measured by way of resistance regulators and a creammeters at a veltage of Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2"

The Determination of the Electric Conductivity of Ocide Coatings on Aluminum in a Moist Atmosphere

32-3-18/52

7.5 V (measuring accuracy about ± 15%). The second method is based upon a sort of tube chameter working with an electron tube 27 lH and an accuracy of up to ± 1%. In the third method a radio-transmitter is used and, in accordance with resistance, higher or lower sounds are emitted. A hysteresis effect, which was noticed with an increase; and decrease of moisture is explained by electrode polarisation. There are 3 figures, 1 table, and 1 reference, 1 of which is Slavic.

AVAILABLE: Library of Congress

1. Duraluminum-Occidation-Methods. 2. Occide coatings-Conductivity-

Card 2/2

Exploration satellite	sandr Aleksandrovich methods of the atmosphe	OPMARABLE SEASTIN	a de la desta de la compansión de la compa
biblio. TOPIC TAGS:	rooket meteorology, say	tellite meteorology, ud cover, atmosphere	meteorological
sciences, ition used to attention rockets ar Soviet south both within Payloy, N	OVERAGE: This book, is workers in meteorology presents the physical property of investigate the upper is given to meteorological satellites. The work irces and treats instrument and outside the Soviet A. Petroy, and A. A. Pon of the work.	rgeophysics, and the rinciples upon which atmosphere are based instruments used is based on 380 Soventation and technique in the contraction and the contraction and the contraction and the contraction and technique in the contraction and	e aerospace instrumenta- d. Particular ion geophysical let and non- jues applied
± 1	TENTS [abridged]:		
Cord 1/3		DG. 551.507.362.1	C

2571.46 ACC NR. AM6013718 Preface -- 3 Introduction -- 5 Part One: Carriers of measurement apparatus and disturbances of the medium around them Ch. I. Types of measurement apparatus carriers -- 9 Ch. II. Disturbance of the medium by the container -- 26 Part Two: Measurement of the parameters of the upper atmosphere and outer space --Ch. III. Measurement of structural parameters -- 42 Ch. IV. Measurement of the gaseous components of the atmosphere -- 68 Ch. V. Measurement of cosmic radiation and corpuscular streams -- 101 Ch. VI. Measurement of the concentration of charged particles -- 149 Ch. VII. Measurement of meteor streams -- 170 Card 2/3

L 25571-66

ACC NE AM6013718

Ch. VIII. Measurement of electrostatic and magnetic fields -- 181

Part Three: Measurements in the optical range

A COMPANY OF THE PROPERTY OF T

Ch. IX. Measurements of the x-ray and ultraviolet radiant energy - 207

Ch. X. Measurement of the radiant energy in the visible and infrared regions of the spectrum -- 239

Part Four: Obtaining images of the planets and cloud cover

Ch. XI. Scanning device -- 283

Ch. XII. Photographic apparatus -- 295

Ch. XIII. Television apparatus -- 308

References -- 349

SUB CODE: 04/ SUBM DATE: 24Dec65/ ORIG REF: 272/ OTH REF: 108

Cord 3/3 FW

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2

USJR/Chemistry - Isomerian Ketols, Isomerian

A CONTROL OF THE PARTY OF THE P

Jul 49

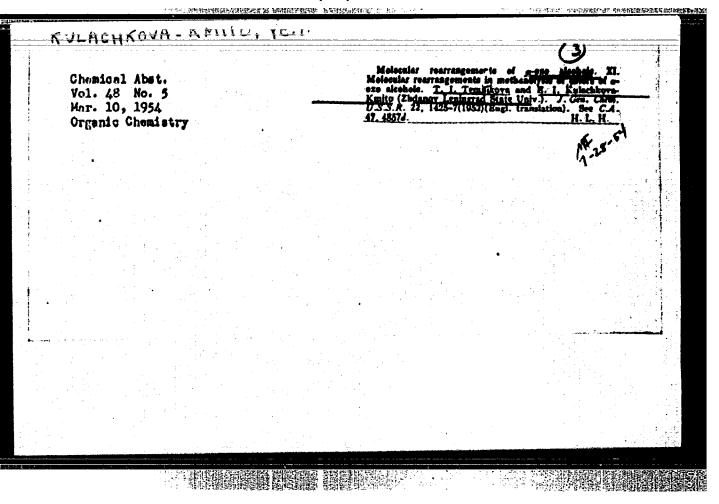
"Research in the Field of Isomeric Conversions of Alpha-Ketols: VII, Effect of Chlorine in the Para-Position on the Stability fo Alighatic-Aromatic Alpha-Ketols. Hethyl-n-Chlorobenzoylcarbinol (I)," T. I. Temnikova, Ye. I. Kulachkova, Chair of Structure of Org Compounds, leningrad Ord of Lenin State U imeni A. A. Zhdanov, 10 pp

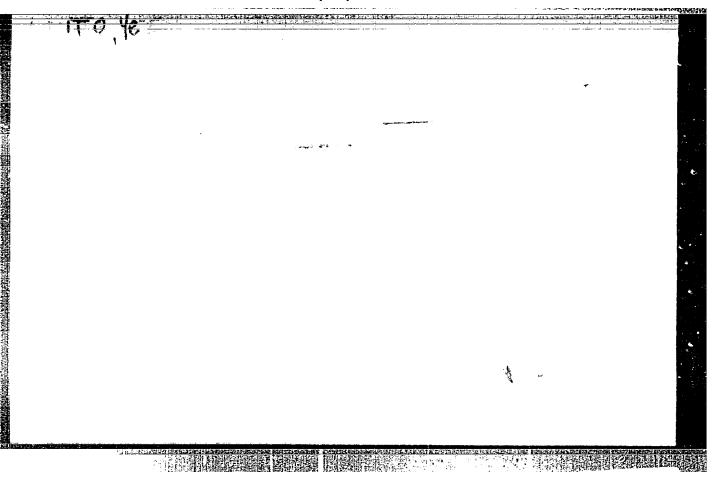
"Zhur Obsheh Khim" Vol XIX, No 7

I and n-chlorophenylacetylcarbinol are produced by reaction of alphabromoethyl-n-chlorophenyl-ketone with potassium formate in a medium of methyl alcohol. When these two ketoalcohols are subsequently heated at 100°C, pure I is resulting product since other ketoalcohol is subjected to isomeric conversion in re-esterfication stage. Interaction of alphabromoethyl-n-chlorophenylcarbinol with potassium acetate forms only one ester, corresponding in structure to original ketone. Subsitted 7 May 48.

PA 2/50T52

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2





AUTHORS:

Kmito, Ye.I., Kmito, A.A.

TITLE

The Determination of the Bleatric Conductivity of Oxide Coatings on Aluminum in a Moist Atmosphere (Opredeleniye elektroprovodnosti okianykh plenok na alyuminii vo vlashnoy

atmosfere)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 3, pp. 303-306 (USSR)

ABSTRACT:

Three methods are suggested for the above mentioned determination; the measuring range being large, the first method is employed for rather rough extimates, whereas the second gives accurate results in the case of lower, and the third in the case of higher values of moisture. Investigation samples of duraluminum were cylindrical in shape, their surface was previously treated anodically in order to obtain a layer of oxide. According to the first method a nickel wire is wound round the sample (which acts as a cathode); this wire serves as an anode and is connected to a series of piles (batteries). The resistance which is produced in this way and is influenced by the oxide layer and by the moisture, is measured by way of resistance regulators and microammeters at a voltage of

Card 1/2

KMITOVENKO, A.G., dotsent; RUSSKIT, I.I., dotsent; NOVICHROV, S.I., insh.

Determination of the most advantageous dimensions of a pit area in relation to the number of drawing trenches. Isv. vys. ucheb. sav.; gor. shur. 5 no.10:11-17 '62. (MIRA 15:11)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva. Rekomendovana kafedroy otkrytykh gornykh rabot. (Strip mining)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2"

TO REPORT TO STATE OF THE PROPERTY OF THE PROP

Exitoverse, A.F., dotsent Effect of leading and unleading centers on belt conveyor performance and use. Isv. vys. ucheb. sav.; gor. shur. no. 11:51-60 '60. (MEA 13:12) 1. Sverdlovskiy gernyy institut imeni V.V. Vakhrusheva. Rekomendovana hafedray etkrytyki gernykh rabot Sverdlovskogo gornogo instituta. (Conveying machinery) (Loading and unleading--Equipment and supplies)

DEMIN, A.M., kand. tekhm. nauk; KOKH, P.I.; CHERTKOV, V.K.; VASIL'YEV,
M.V., kand. tekhm. nauk; YEFDHOV, I.P.; KMITOWENKO, A.I., dots.;
PRISEDSKIY, O.V., insh.; DUNATEVSKIY, I.W.; VOLOTKOVSKIY, S.A.,
doktor tekhm. nauk; KUR'YAN, A.I., kand. tekhm. nauk; MARMIN,
A.I.; MIROSHNIK, A.M.; PETROV, I.P.; TURISHEV, B.F.; SHISHK'V,
A.I.; AVERBUKH, I.D., insh.; VARSHAVSKIY, A.V.; KYUKOV, D.K.;
LUKAS, V.A.; MIRSIKV, V.A.; SMIRROV, A.A., otv. red.; LYUBINOV,
N.G., red. isd-va; MAKSIMOVA, V.V., tekhm. red.
[Handbook for the mechanic in a coal pit] Spravochnik mekhanika
ugol'nogo kar'era. Moskva, Gosgortekhizdat, 1961. 639 p.

(MIRA 15:12)

(Goal mining machinery—Handbooks, manuals, etc.)

XMITOVENKO, A.T., detsent

Relation between boring and blasting work and the productivity of belt conveyors. Isv. vys. ucheb. sav.; gor. shur. no. 4:33-40 (MIRA 14:6)

1. Sverdlevskiy germy institut imeni Y.Y.Yakhrusheva. Rekemendovana kafedrey etkrytykh rabet Sverdlevskege gernege instituta.

(Geal-handling machinery) (Blasting)

The state of the s

BUITOVERO, A. T., detsenty RUSSKIY, I. I., dotsent; NOVICHKOV, 8. I., insh.

THE CONTROL OF THE PARTY OF THE

Determining the efficient dimensions of open-pit mine areas. Inv. vys. ucheb. mav.; gor. shur. no.9:48-58 '61. (MIRA 15:10)

1. Sverdlovskiy gurnyy institut imeni V. V. Vakhrusheva. Rehomendevana kafedrey etkrytyth rabot.

(Strip mining)

TSERENSHCHIKOV, P.T., insh.; KMITOVENKO, A.T., dotsent

THE STREET WITH PARTY PRINTED BY A SHARE STATE OF THE STA

Determination of efficient spacing for carrying off rocks which have been sorted from scal in coal pits. Izv. vys. ucheb. sav.; gor. shur. 6 no.3:13-16 '63. (MIRA 16:10)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva. Rekomendovana kafedroy otkrytykh gornykh rabot.

NKO. A.T., dotsent; YESHTOKIN, A.F., inst.; TSERENSHCHIKOV, P.T., insh.; MOLTUSEV, G.P.; insh.				
Selecting an efficient variat Bogoslovskiy brown coal depor 7 no.11:8-17 164.	nt for finishing up the mit. Izv. vys. ucheb. sav	ning at the gor. shur. (MIRA 18:3)		
1. Sverdlovskiy gornyy insti- kafedroy otkrytykh goinskh re	tut meni Vekhrusheva. Rel abots	comendovana		

EMITOMA, K.

KHITOMA, K. Problem of disputes among insects. p. 199

Vol 2, no. 3, 1956
EXCLORIA PUBLIA, SERIA M.
SCIENCE
Warstanza, Poland

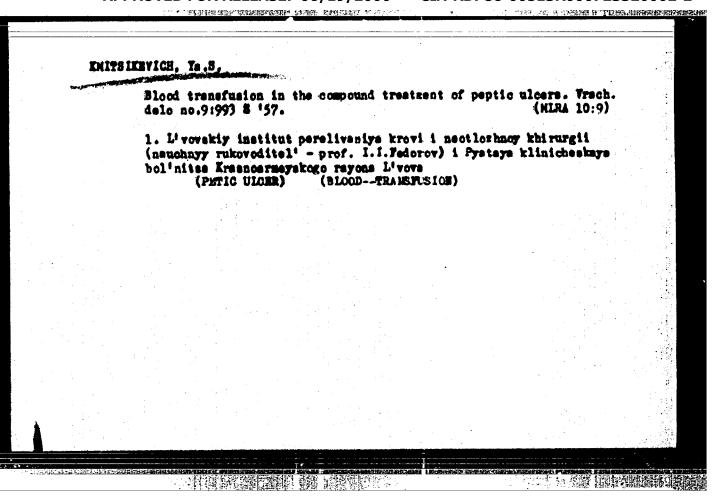
Bot Mart Murspean Accession vol 6, no. 3, March 1957

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2"

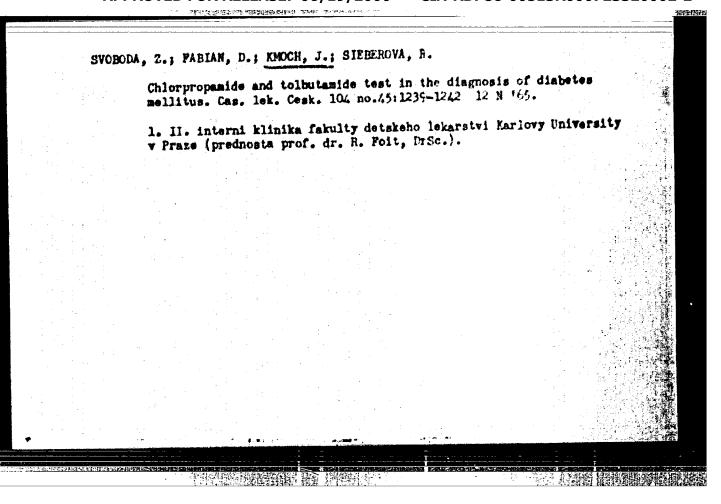
KHITSIKEVICH, Ya. S.: Master Med Sci (diss) -- "The complex treatment of patients suffering from ulcers". L'vov, 1958. 12 pp (L'vov State Med Inst),

200 copies (KL, No 4, 1959, 131)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2"



i	SIEBERO'	VA, R.; SVOBODA, Z.; KHOCH, J.	
		Contribution to the study on cured diabetes mellitus. 1ek, 11 no.10:989-994 0 '65.	Vnitrni
		1. II. vnitrni klinika fakulty detskeho lekarstvi Karl University v Prase (prednosta prof. Dr. R. Foit, Dr.Sc	ovy).
	:. :		
	. •		



PANOS, J.; KMOCH, J.; KORYCH, B.; FABIAH, D.; KALVODOVA, D.

Apropos of the etiology and clinical aspects of atypical pneumonia. Cas.lek.cesk. 102 no.50:1371-1374 13 D'63.

1. II interni klinika fakulty detakaho lakaratvi KU v Prame: (prednostas prof.dr. R. Foit, DrSc.) a Ustav pro lekarskou mikrobiologii a imunologii fakulty vseobecneho lekarstvi KU v Praze (prednosta: prof.dr. F.Patocka, DrGo.).

MOCAPPROVED FOR RELEASE 066196000Chemical RDP86,00513R000723320002-CZECHOSLOVAKIA Chemical Application. Regulaand Measuring Devices. Automatic Regulation

Abs Jour

Ref. Zhur. Khimiya, No 2, 1958, No 4920

Author

: Emoch Jiri, Paul Jaromir

Inst

. Not Given

: Magnetic Level Gauge

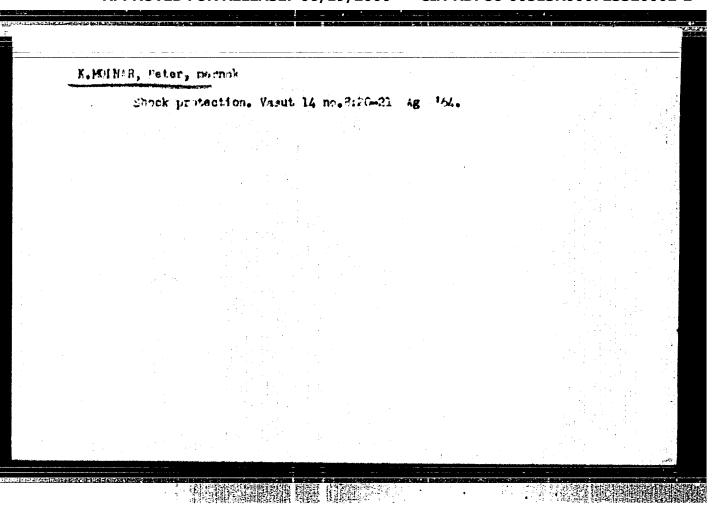
Title:

Orig Pub : Chem. prusys1, 1957, 7, Ro 3, 139

Abstract: The apparatus consists of a tube of non-magnetic metal, inside of which a hollow glass float, containing iron foil, is floating on the surface of taining iron foil, is floating on the surface of the liquid. Outside the tube, suspended from a the liquid. Outside the tube, suspended from a filament, is a magnet with a level index, which

Card

1. 1/2



EMORICEK, J.

Prevention of ocular anaphylactic reaction with antistine and novocaine. Cesk.ofth. 6 no.6:339-342 1950. (CDE 20:7)

1. Of the Eye Clinic of Massaryk University, Brno (Head-Prof.

B. Slavik, M.D.).

EMCSTCEK, J.; technicks spoluprace: FOVAREK, J.

Snaymatic activity of the human lens. Gesk.ofth.17 no.2:102-106
Nr '61.

1. Ooni klinika University v Brne, prednosta prof. Dr. Sc. MUDr.
Jan Vanysek, Ill. vnitrai klinika University v Brne, prednosta
prof. MUDr. PhDr. Jaroslav Pojer.
(REFIGES chem)
(LEES GRYSTALLIES chem)

KHONICKK, J.

Definition of blindness. Cosk. oftal. 20 no.2:143-145 Mr*64.

1. Ozni klinika lekarske fakulty UJErP v Brne; prednostat prof. dr. J. Vanysek, DrSc.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2"

Production of preboiled rice. Prum potravin 14 no.5:262-265
My 163.

1. Vysoka skola chemickotechnologicka, katedra chemie a skouseni
potrajin, Praha (for Briliska).

KMONICEK, V.

The surface steam condenser under changing operational conditions. p. 117.
STROJNICKY SBORNIK, Prague, No. 8, 1954.

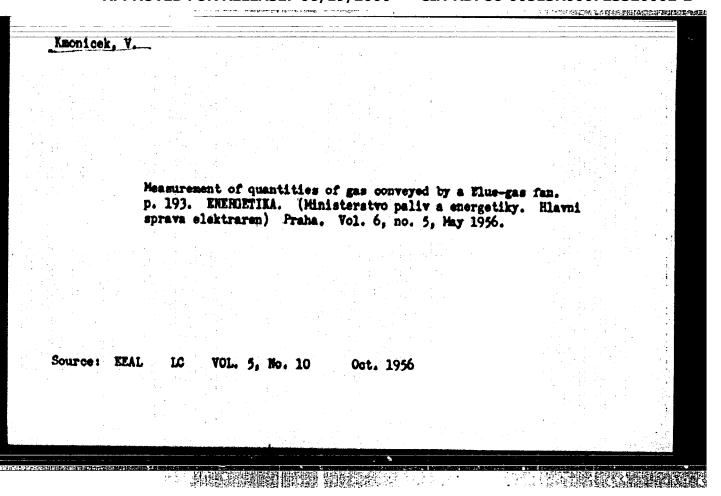
SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 5, No. 6, June 1956, Uncl.

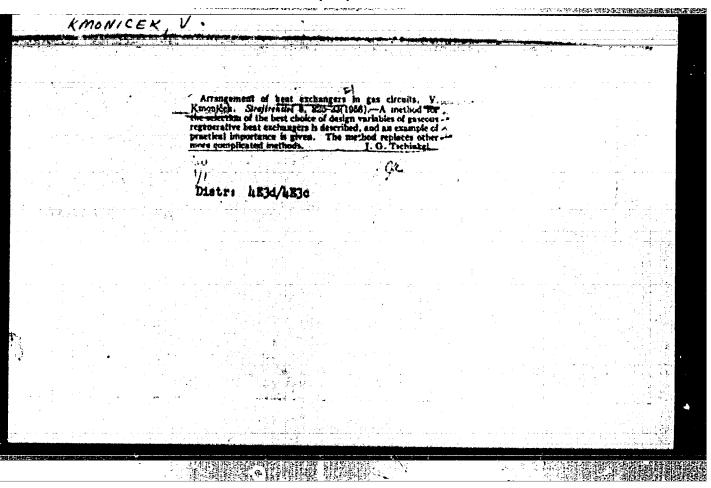
1] 4 人名英国特别和伊姆巴西阿菲纳特法西德 特别不同语题 特别等于在这些是不是一些人们

KYONICEK, V.

Reference data for the conversion of model test results obtained on the stages of centrifugal compressors. In English. p. 163. (ACTA TECHNICA, Vol. 1, No. 3, 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec 1957. Uncl.





字字"下编数"的编数数**广**中和数数面的数数数型层内容数。1985年,是他们可以是

KMONICEK, V.

A accurate high-pressure manometer. p. 2

JERNA MECHANIKA A OPTIKA. (Ministerstvo presneho strojirenstvi a Ustav pro vyskum optiky a jemne mechaniky) Praha, Czechoslovakia, Vol. 4, No. 1, Jan. 1959

Monthly List of East European Accessions (REAI), LV, Vol. 8, No. 7, July 1959 Uncl.

KHONICEK, V.

Turbulent flow in conical diffusers. In German. p. 404.

ACTA TECHNICA. (Ceskoslovenska akademie ved) Praha, Czechoslovakia, Vol. 4, no. 5, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959

26.2110

21268 R/008/61/000/002/006/008 D235/D304

AUTHOR:

Kmonicek, V.

TITLE:

Subsonic flow in conical diffusers

PERIODICAL: Studii și certetari de mecanică aplicată, no. 2, 1961, 383 - 390

TEXT: This paper was presented at the Scientific Jubilee Session of the Institutul de mecanica aplicata "Traian Vuia" ("Traian Vuia" Institute of Applied Mechanics) of the Rumanian Academy in Bucharest from July 4 to 7, 1960. The article presents a method of calculating the development of the turbulence in a conical diffuser and the distribution of the velocity and the statical pressure in a section of the ourrent. It also presents the determination of the energy loss of the diffuser in the case of various geometrical shapes and various inlet conditions. The geometrical parameters of the conical diffuser, shown in Fig. 1, are the radius of the inlet section, ra, the angle of divergence, &, and the ratio of the ini-Card 1/7

21/268 R/008/61/000/002/006/008 D235/D304

Subsonic flow in conical diffusers

tial and final radii, $\rho_e = \frac{r_e}{r_a}$. The location of a certain section of a flow, located at a distance x from the inlet is given by the magnitude: $\frac{r_e}{r_a} = 1 + \frac{s}{r_e} \log \delta.$

The properties of the velocity profile, i.e. the distribution of the velocities in a certain section of the flow are expressed by ϕ , β , and ν , defined by:

$$\Phi = e \frac{2g}{C_{-}^{h}}; \ \beta = \frac{C_{-}}{C_{-}}; \ \nu = \frac{C_{0.50}}{C_{-}}. \tag{1}$$

in which e is the kinetic energy of the flow in a section, referred to 1 kg of the flowing material, g the gravity acceleration, and C the medium flow speed, corresponding to the rate of flow. The magnitude Φ defines the energy effect of the velocities non-symme-

Card 2/7

21268 R/U08/61/000/002/006/008 D235/D304

Subsonic flow in conical diffusers

trical distribution, the magnitude β the plain character of the velocity profile, and the magnitude ν the velocity gradient in the vicinity of the wall. The turbulence intensity is characterized by its medium value according to the rate of flow T_n . The magnitudes Φ , β , and ν are correlated graphically. The development of the velocity profile in the diffuser may be described by the variation of only one of the mentioned magnitudes. The value of Φ is given by

 $\Phi = \Phi' - (\Phi' - 1) \exp\left(-\frac{2000}{g^4\Omega}\right),$ (5)

in which Ω , characterizing the energy of the turbulent motion is given by

$$\Omega = \frac{1}{\lg 8} \left[\frac{1}{2} \left(\rho^2 - 1 \right) + \left(\frac{T_{m_0}}{3, 5} - 1 \right) I_1 + \left(\frac{T_{m_0}}{3, 5} - 1 \right)^3 I_2 + \left(\frac{T_{m_0}}{3, 5} - 1 \right)^3 I_3 \right] -$$
(6)

Card 3/7

21,268

R/008/61/000/002/006/008 D235/D304

Subsonic flow in conical diffusers

The factors I, through I, have been compiled in tabulated form to facilitate the calculations. The relation (5) expresses the fact that the turbulent motions at the flow through a diffuser have the tendency to equalize the velocity profile. The values & depend on the inlet conditions and on the following magnitudes:

 $\beta_0 = 0,703 + 0,0255 \log \beta_{00}$ (7)

The author then determines ϕ' for $\beta_a < \beta_k$, $\beta < \beta_k$, $\beta > \beta_k$, and $\beta_a > \beta_k$. In through I3 are determined by Eq. (6). The values of the relative losses in the diffuser are compiled in Fig. 5. This calculation method is valid in a wide field of geometrical parameters of the diffusers and of their aerodynamical inlet conditions, except for rotation. Its accuracy is sufficient for its application in engineering. The derivation of the method is found in the following papers of the author: Teoreticke a experimental ni objasneni jevu pri podzyukovem proudeni v kanalech kruhoveho prurezu

Card 4/7

Card 5/7

CHAIR MINISTERNMENT EL MEN CONTRA CO

Z/030/62/000/001/001/001 E197/E435

AUTHOR:

Kmonizek, V1, Engineer Doctor, Candidate of Science

TITLE:

Accurate measurement of small temperature differences with resistance thermometers

PERIODICAL: Jemná mechanika a optika, no.1, 1962, 19-23

The author describes a method of measuring small temperature differences by platinum resistance thermometers which will give an accuracy in the order of 0.01°C without the necessity thermometers and thermocouples because both need comparison with standard thermometers, the accuracy of which is nearly the same as required for the author's purpose. However, platinum thermometers can be relied upon to change their resistance accurately and the author has used a bridge with which an accuracy of 0.01°C is obtainable without the necessity of accurate calibration. The equipment consists of two resistance thermometers (Heraeus type 6011), standard resistances (tolerance 1 in 10000), decade resistance boxes (type Metra XLLk or XL6), a galvanometer (Zeiss), a battery, a milliammeter and a The latter is changeover switch and a self-made switchboard. Card 1/4

z/030/62/000/001/001/001 E197/E435

Accurate measurement of small ...

made of perspex and brass strips with appropriate holes for stoppers. With the equipment the following tests can be carried out; measurement of the difference in the resistance of the leads and the arms of the bridge; measurement of difference in the resistance of both thermometers; measurement of resistance. of one of the thermometers and measurements as above but with reversed polarity of the current. The purpose of the arrangement is to eliminate such errors in resistance measurement which are not due to temperature. The author then develops the mathematical analysis of the errors which may occur in temperature determination and uses the standard equation for resistance thermometers

 $R = R_0 (1 + At + Bt^2)$

in which Ro is the resistance at O°C; A and B - constants; t - temperature. The thermometers used by the author had an approximate resistance Ro of 100 ohms, the value A was approximately 3.9 x 10-3/°C and B approximately 5.9 x 10-7/°C2. Considering the very small difference in the parameters of the Card 2/4

2/030/62/000/001/001/001 2197/2435

Accurate measurement of small ...

thermometers found by the author and the technique of making an accurate comparison of the resistance of the pair of thermometers to be used at the initial temperature, the author defines a value of No as the error which would appear at a temperature of 500°C and relates all other errors to that value, obtaining

 $\frac{d^{4}}{4d^{4}} = \frac{d^{4}}{4d^{4}} = \frac{1}{4d^{4}} + 0.25 \, \text{Re}^{3}. \tag{51}$

in which Δt is the temperature difference to be measured and MAt the error of measurement. Assuming MC as 0.2°C, all errors within a temperature difference of 20°C will be less than 0.01°C, according to the formula. In order to verify the theoretical evaluation, the author has used three platinum resistance thermometers of the type Heraeus 6011, which were calibrated by the makers in the range of 0 to 500°C with a maximum error of 0.2°C. The thermometers were paired in the three possible combinations and the change of the difference in resistance of the pair measured between 80 and 180°C at constant temperature. The test equipment consisted of a Wobser U8 Card 3/4

8/058/62/000/008/068/134 A061/A101

AUTHORS:

Jūza, Jan, Kmoniček, Vladimir, Šifner, Oldřich .

TITLE

Specific volume and equation of state of water in the range

500 - 3,500 bars and 80 - 350°C

红色用于医院理解 用器 知念主

PERIODICAL

Referativnyy shurnal, Fizika, no. 8, 1962, 7, abetract 8052 ("Acta techn." (CSSR), 1961, v. 6, no. 6, 553 - 572, English;

summary in Russian)

An experimental device for determining the specific volumes of liquids and gases in the range of 80 - 350°C and 500 - 3,500 bars is described. A preliminary testing has shown this device to permit measurements with the following limit errors: specific volume, 0.001 cm3/g, temperature, 0.20C, and pressure 10 bars. Results of a specific water volume determination are presented. The experimental data obtained are compared with those of other authors. Divergences do not exceed the error limits mentioned above. An equation of state for water and steam is suggested in conclusion, and is confronted with experimental data of a number of authors. In the range investigated by the authors

Card 1/2

8/081/62/000/017/014/102 B166/B180

AUTHORS:

Juna, Jan, Emonicek, Vladimir, Sifner, Oldrich

TITLE:

Specific volume and equation of state of water in the range

of 80 - 350°C and 500 to 3500 bars.

THE PROPERTY OF THE PROPERTY OF

PERIODIC L: Referativnyy shurnal., Khimiya, no. 17, 1962, 39, abstract 178250 (Acta techn. (CSSR), v. 6, no. 6, 1961, 553-572

[Eng.; summary in Russian])

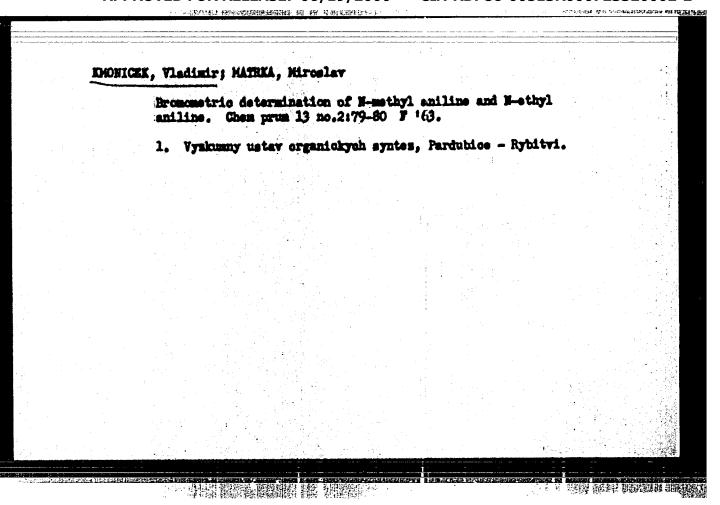
TEXT: The article describes equipment for measuring the specific volume of water vapor at 80 - 350°C and a pressure of 500 - 3500 bars with an accuracy of 0.001 cm3/g (spec. vol.), 0.20c (temp.) and 10 bars (pressure). The results are tabulated. An equation of state is suggested which describes the experimental data with an accuracy of 0.2%. [Abstracter's . note: Complete translation.]

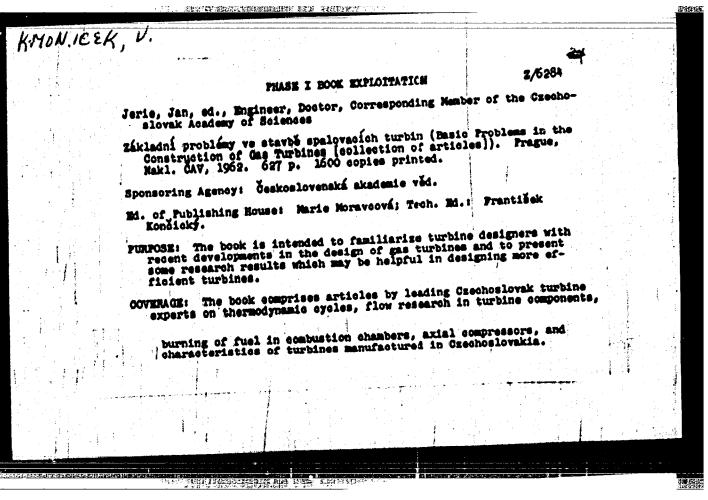
'Card 1/1

Thermal problems of the new high temperature conversions of energy. Tech prace 14 no.5:341-344 My '62,

1. Ustav pro vyskum stroju, Ceskoslovenska akademie ved, Praha.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2"





Basic Problems in the Construction (Cont.)	z/6284	4		The second secon
L. Hichalioka (State Research Institute for Heat Engineerin Prague). The Use of Cas Turbines in Industrial Processes	E, 77			A Company of the Comp
J. Jerie (State Research Institute for Heat Engineering, Prague). Combustion Turbines of Highest Efficiency	95			36
V. Knoninek (Institute for Machine Research, Caechoslovak Adadesy of Sciences, Frague). Some Heat Recovery Problems in the Turbine Cycles	119			
L. Krejčí (Institute for Machine Research, Czechoslovak Accessor of Sciences, Frague). Problems Related to a Temperaturing and Cas Turbines	77-			
Z. Bayer (Institute for Machine Research, Cxechoslovak Aca of Sciences, Prague). The Effects of Interstage Cooling, heating, and Precooling in Gas Turbine Cycles	Re- 161		And the second s	
0164-3/8 2/e				
	See and the second seco			
	· jul 11 4	2 (\$4		

JUZA, Jan, ins. dr.; EMONICEK, Vladimir, ins. dr., CSe.; SCHOVANEC, Karel, ins.

Joule-Thomson coefficient of E20 and D20 in the range of 1,2 - 1,8 bars and 1300 - 1900C. Stroj cas 14 no.5:467-483 163.

1. Zavody V.I. Lenina, Flsen (for Juza). 2. Ustav pro vyskum stroju, Ceskoslovensku akademie ved, Fraha (for Kmonicek and Schovansed).

Effect of inserted bodies on the activity of simple conical diffusers. Stroj cas 14 no.5:484-498 163. 1. Ustav pro vyskum stroju, Ceskoslovenska akademie ved, Praba.	, 13MON IC	EK, Vladimir, ins. dr., CSe.	
1. Ustav pro vyskum stroju, Ceskoslovenska akademie ved, Praba.		Effect of inserted bodies on the activity of simple conical diffusers. Stroj cas 14 no.5:484-498 '63.	
		l. Ustav pro vyskum stroju, Ceskoslovenska akademie ved, Praha.	

MONICER, V., ins. dr.; MASTOVSKY, J., ins.

Contribution to the design of membrane shock tubes. Strojirenatvi 14 no.1:13-19 Ja'64.

1. Ustav pro vyakum stroju, Ceskoslovenska akademie ved.

Thermophysical properties of gases at high temperatures and methods of determining them. Stroj cas 16 no.2:119-121 '65.

1. Institute of Thermomechanics of the Caschoslovak Academy of Sciences, Prague.

Methods of calculating thermodynamic properties of gases at high temperatures. Stroj cas 16 no.2:121-128 '65.

1. Institute of Thermomechanics of the Czechoslovak Academy of Sciences, Prague. Submitted October 5, 1964.

KMONICEK, Vladimir, ins. dr. DrSc.

Possibility of measuring gas thermal conductivity in a shock tube. Stroj cas 16 no.2:139-148 '65.

1. Institute of Thermomechanics of the Czechoslovak Academy of Sciences, Prague. Submitted October 5, 1964.

KMONICEK, Vladimir, ins. dr. DrSc.; KOREJS, Bretislav

Some remarks on the technology of manufacturing and calibrating thin-film resistance thermometers. Stroj cas 16 no.2:240-246 '65.

1. Institute of Thermomechanics of the Caschoslovak Academy of Sciences, Prague. Submitted October 5, 1964.

L 00200-66 ENT(1)/ENP(m)/ENA(4)/PCS(k)/ENA(h)/ENA(c) WW ACCESSION NR: AP5013181 (5) CZ/0041/65/000/002/0139/0148

AUTHOR: Kmonicek, Vladirir (Kmonichek, V.) (Engineer, Doctor, Doctor of sciences)

TITLE: Possibility of measuring the thermal conductivity of gases in shock tubes

SOURCE: Strojnicky casopie, no. 2, 1965, 139-148

TOPIC TAGS: heat conductivity, real gas, gas property, shock tube, reflected shock wave

ABSTRACT: The article presents a theoretical analysis of the possibilities offered by a shock tube for measuring the thermal conductivity of real gases. The analysis is based on smiley's method, which involves measurement in the space behind the reflected shock wave, and in which the thermal conductivity is determined from the temperature jump at the wall of the end-plate of the tube. Particular attention is given to conditions of thermodynamic equilibrium, derivation of the energy transfer equation for a radiating and chemically reacting gas, establishment of a sufficient value for the space behind the reflected shock wave, and effect of radiation flux and errors in the measurement of thermal conductivity as determined from the temperature jump at the end-plate of the tube. It is pointed cut that the space behind the shock wave is convenient for measurement, but the measurement of the Cord 1/2

Card 2/2

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723320002-2

EWT(d)/EWT(m)/EWP(1)/EWP(v)/EWP(t)/EWP(k)/EWP(b)/EWP(b)/EWP(1)L 00151-66 ACCESSION NR: AP5013192 IJP(G) JD/JG CZ/0041/65/000/002/0240/0246 44.55 AUTHOR: Kmonicek, Vladimir (Kmonichsk, Y.) (Engineer, Doctor of sciences); Korejs, Bretislav (Koreys, B.) 14.53 TITLE: Some notes on the manufacture and calibration of thin-film thermometers SOURCE: Strolnicky casopis, no. 2, 1965, 240-246 TOPIC TAGS: platinum, resistance thermometer, metal film, time measurement ABSTRACT: A new type of sensing element for measuring rapid changes in surface temperature is described which can be used both for temperature determinations and for measuring time intervals. The element is vacuum tight, shock-resistant, and easy to assemble. Deposition of its platinum resistance film can be accomplished both chemically and by vaporization in a vacuum; experience with both of these methods of preparation is described. Chemically deposited films are preferred for time-measuring elements, while films obtained by vacuum deposition are more suitable for temperature-sensing elements. Monstationary methods of measuring the thermophysical properties of the insulating substrate onto which the platinum layer is deposited are discussed. Knowledge of these properties is necessary for determining the heat flux entering the wall. Cord 1/2

大学学生的主题,我们的一个人,我们们的一个人,这个人的一个人,这个人的一个人,这个人的一个人,我们们的一个人的,我们们的一个人的一个人的人,我们们的一个人的一个人

MOSKO, K.

New bridge over the Danube at Komarom. P. 19. FUSZAKI ELET. Sudapest Vol. 9, No. 18, Dec. 1954

SCURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, No. 6, June 1956

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723320002-2

RNCSFC, K.

RNCSFC, K. Reconstruction of the brickwork of the railroad bridge at Komaron.

p. 490.

Vol. 5, No. 11, Nov. 1955.
MILYEPITESTULCMARYI SZEMLE.
TECHNOLOCY
Fudapest, Hungary

So: Fast European Accession, Vol. 5, No. 5, May 1956

KMOSKO, K.

KMOSKO, K. The railroad bridge over the Damube near Komarow, p. 197.

Vol. 6, No. 5, May 1956.

WELTERITESTUD MAN'II STEMUE
TICHNOLOUT
Budapest, Hungary

So: East European Accession, Vol. 6, No. 2, Feb. 1957

KMOSKO, K.

Railroad culverts.

P. 307. (MELYEPITESTUDOMANYI SZEMLE.) (Budapest, Hungary) Vol. 7, No. 9/10,

Sept./Oct. 1957

50: Honthly Index of East European Accession (EFAI) LC. Vol. 7, No. 5, 1958

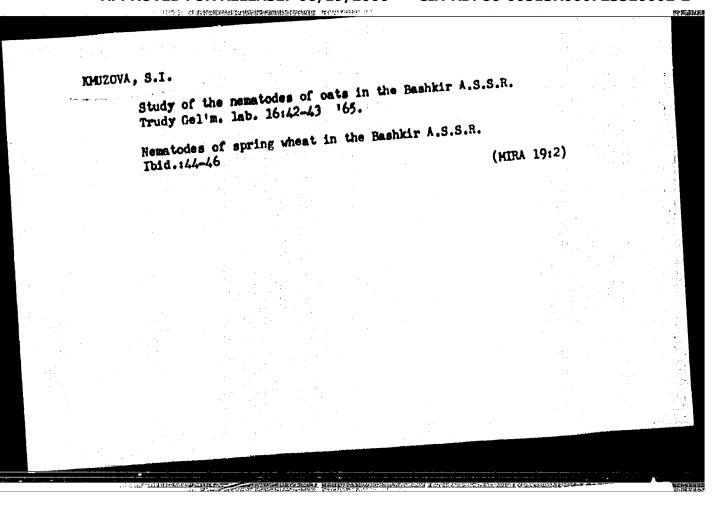
NHOTRIK, P.

Remarks on a conference. p. 25

MUSZAKI ELET, No. 10, May 1955

(Muszaki es Termessettudomanyos Egyesuletek Szovetsege) Budapest

SOURCE: East European Accessions List Vol. 5, No. 1 September, 1956



188

0-2 USSR/Electricity - Dielectries : Ref Zhur - Fizika, No 1, 1958, 1235 Abe Jour Emission of Electrons by Irradiated and Mechanically-Morked : Knab, O.D. Author Inst Title Dielectrics. : Pratei Odes'k, un-tu, Tr. Odessk. un-ta, 1956, 146, 36, stud. robit, 8b. stud. rabot, No 4, 157-159 Orig Pub : A study is made of the emission of electrons upon pulverizing and exposure of Rochelle salt, corundum, pyrite, and quarts to ultraviolet light. Attempts are made to explain Abstract the observed phenomena. Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320002-2"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723320002-2

9,2180

82460 8/112/60/000/006/002/032

Translation from: Referativnyy shurnal, Elektrotekhnika, 1960, No. 6, p. 12, # 1.1519

AUTHOR:

To the Problem of Electric Breakdown of Crystalline Dielectrics

TITLE:

PERIODICAL: Tr. Odessk, un-ta, Sb. molodykh uchenykh un-ta, 1958, Vol. 148, No. 3, pp. 63-65 (Ukrainian)

A possibility of breakdown of crystalline dielectrics as a result of the origination of mechanical forces under the action of an electric field is discussed. In places of crystal lattice distortions or in the presence of defects, microscopic cracks can form in a crystal under the action of an electric field. The side walls of the gracks become electron suppliers. These electrons are accelerated by the field to the values of energy necessary for a "shock breakdown". The author objects to the theory of cumulative ionization of V. A. Chuyenkov, since an electron must pass without collisions 105-107 of lattice constants at a field of ~1 My/sec to attain the energy necessary to release an atom or ion from a lattice node. The emergence of an electron with such an energy is impossible owing to high ionization expenses. There are 6 references.

Card 1/1

67522

24(2), 24(3), 24(4) 24.7800

30Y/155-59-1-28

AUTHOR:

Knab. O.D.

TITLE:

Excelectronic Emission of Some Dielectrics

PERIODICAL: Mauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki,

1959, Nr 1, pp 179-184 (USSR)

ABSTRACT:

The author reports on the experimental investigation of the expelectronic emission of dielectrics after a mechanic treatment, radiation, and electric discharge. It is stated that during a mechanical treatment the dielectrics emit electrons, where the intensity of the radiation depends on the degree of the treatment (splitting). Crystals which slready have "radiated" show a secondary excelectronic emission after an radiation with ultraviolet light or X-rays. The same effect is caused by an electrical discharge. The course of the emission is equal in all cases. For a repeated radiation the emission maximum becomes smaller, i.e. there appears an aging of the samples. Finally it is tried to interpret the observed phenomena.

The author thanks Decent T. Ya. Sere for guilance and

Card 1/2

A Prince, AND STATES OF PROPERTY BUSINESS AND AND ADDRESS OF A PROPERTY OF A PROPERTY

27280

B/181/61/003/008/010/034 B102/B202

24.3500 (1137,1138) AUTHOR: Knab, O. D.

TITLE: Excelectron emission of colored orystals

PERIODICAL: Fizika tverdogo tela, v. 3, no. 8, 1961, 2293 - 2297

TEXT: In the present paper the author presents results obtained when studying the thermal excelectron emission, the thermoluminescence, and the temperature dependence of the conductivity of colored quarts. If the temperature dependence of the conductivity of colored quarts. If crystals emitting electrons at a given temperature are further heated, crystals emitting electrons at a given temperatures which are considerably this electron emission shows maxima at temperatures which are considerably lower than the temperature of thermionic emission. This thermionic emission is especially high in crystals colored by X-irradiation. If emission is especially high in crystals colored by X-irradiation. If thermoluminescence and thermionic emission in such crystals are studied thermoluminescence and thermionic emission can be drawn from the simultaneously, conclusions on electron emission can be drawn from the simultaneously, conclusions on electron emission from traps. This concentration can be regarded as a thermionic emission from traps. This concept, however, is not generally accepted since in some cases the electron cept, however, is not generally accepted since in some cases the electron surface states play a certain part. The studies described here were made

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

Card 1/3

27280

S/181/61/003/008/010/034 B102/B202

Excelectron emission of ...

in quartz powder which had been colored by X-irradiation at room temperature (6 hr. 30-kv, 10-ma X-ray tube, Cu anticathode). All samples were heated at a rate of 0.1 deg/sec. The following experimental results were obtained: experiments concerning the thermal excitation of quarts were made in single crystals; the samples showed two distinct maxima in the ranges 150 - 200 and 250 - 300°C which is in good agreement with results obtained by other authors. The thermoluminescence of the powder was less intense. The temperature dependence of thermionic emission shows a much more complicated course than that of thermoluminescence. At 1700C a distinct peak is observed which coincides with thermoluminescence but is somewhat higher. A second peak lies at 270°C. In general, the peaks of excelectron emission and thermoluminescence do not coincide but are shifted by 10 - 300 with respect to each other. A study of the tenperature dependence of the conductivity of quartz powder showed that conductivity increased by orders of magnitude with temperature. Comparative measurements of the temperature dependence of the conductivity of X-ray excited quartz plates showed only an inconsiderable effect as compared with that in powder. The results showed that the peaks of electron emission are due to processes that are connected with the

Card 2/3

27280

S/181/61/003/008/010/034 B102/B202

Excelectron emission of ...

ionization of trapping centers in the interior of the crystal. Besides these electron emission sources there exists still a considerable amount of surface and surface-near traps which - as was shown by the measurements of thermal conductivity of quarts - are filled with electrons and may largely contribute to excelectron emission. This proves that excelectron emission is due not only to volume but also to surface processes. Finally, the author thanks Docent T. Ya. Sere for discussions and B. I. Soldatov for carrying out the measurements. There are 3 figures and 17 references: 13 Soviet-bloc and 4 non-Soviet-bloc.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova (Odessa State University imeni I. I. Mechnikov)

SUBMITTED: February 23, 1961

Card 3/3

	DIAB,	0.0.		
		Excelectronic emission of colored crystals. tela 3 no.8:2299-2297 Ag '61.	Mis. tver. (MIRA 14:8)	
		l. Odesskiy gosudarstvennyy universitet im. (Electrons—Emission) (Color centers)	I.I.Mechnikova.	
.				
	- 1 - 1 - 1			

39977 3/181/62/004/008/022/041 B102/B104

24.3500

Knab, O. D.

AUTHOR: TITLE:

The stimulated photoeffect of some dielectrics and its connection with the afteremission effect

Fisika tverdogo tela, v. 4, no. 8, 1962, 2193-2200

TEXT: The author studies the dependence of the photoeffect on the period of time after stimulation (coloring, crushing) and its relation to the afteremission in greater detail than has been done up to now. His monsurements were made on crushed crystals of natural CaF2, CaCO, and Sio2 giving rather intense emission after irradiation by white light (3w). Pre-illumination with blue light caused coloring and raised the activity most strongly of CaF2, least of CaCO2. The photoeffect of all crystals

was stimulated by orushing and covered a wide spectral range. The spectral distribution of the stimulated photoeffect, e. g. of CaP2, ranged from about 300 to 950 mp with a high intensity peak at about 400 mp.

Card 1/3

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723320002-2"

The stimulated photoeffect of some ...

8/181/62/004/008/022/041 B102/B104

treatment is discussed; this mechanism can be single- or multi-staged. Stimulated photoeffect and afteremission depend in each case on the presence of color centers. There are 5 figures.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova (Odessa State University imeni I. I. Mechnikov)

SUBMITTED: March 27, 1962

Card 3/3

